

COMMUNICATION PROTOCOL FOR WIRELESS DATA  
EXCHANGE VIA A PACKET TRANSPORT BASED SYSTEM

ABSTRACT OF THE INVENTION

A protocol for wireless data exchange via a packet transport based system.

- 5 The protocol may be used in conjunction with two or more portable computer systems. One of the portable computer systems may be a personal digital assistant (PDA) having an internal or an external wireless communication unit, e.g., a GSM radio using the Short Message Service (SMS). The protocol can be used by a sending application residing on the portable computer system to
- 10 transparently send a wireless message to a receiving computer system. The packet is then automatically routed to the proper destination application residing on the receiver. The protocol uses a special token identifier that is placed before a data type identifier. The data type identifier is used by the receiver, in conjunction with an application registry, to determine the proper destination
- 15 application. The data type identifier can identify by extension, MIME type or by application creator, for instance. The flexible protocol offers application developers an opportunity to write wireless data exchanging applications in which the communication mechanism is transparent to the application. The protocol is transport-independent and compliant with current smart messaging
- 20 devices (as an extension of NBS).